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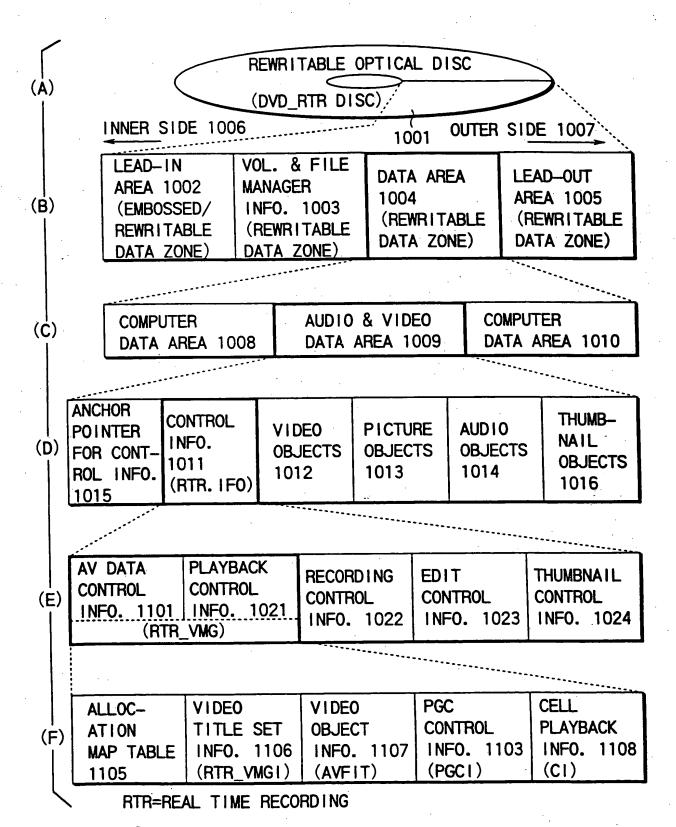


FIG. 1

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ROOT DIRECTORY 1450

SUB DIRECTORY 1451

REWRITABLE TITLE SET RW_VTS 1452 (DVD_RTR DIRECTORY)

RTR=REAL TIME RECORDING

DATA FILES 1453

CONTROL INFORMATION 1011 = RW VIDEO CONTROL. IFO (RTR. IFO)

BACKUP OF CONTROL INFO. =RW_VIDEO_CONTROL.BUP

AV FILE 1401 (RTR DATA)
=RW_OBJECT.OB

VIDEO OBJECT (RTR_MOV.VRO) 1012

PICTURE OBJECT (RTR_STO. VRO) 1013

AUDIO OBJECT (RTR_STA. VRO) 1014

THUMBNAIL OBJECT 1016

REWRITABLE ADDITIONAL INFO. 1454 = RW_ADD.DAT

SUB DIRECTORY 1451

VIDEO TITLE SET VIDEO_TS (OR VTS) 1455

AUDIO TITLE SET AUDIO_TS (OR ATS) 1456

SUB DIRECTORY FOR COMPUTER DATA STORAGE 1457

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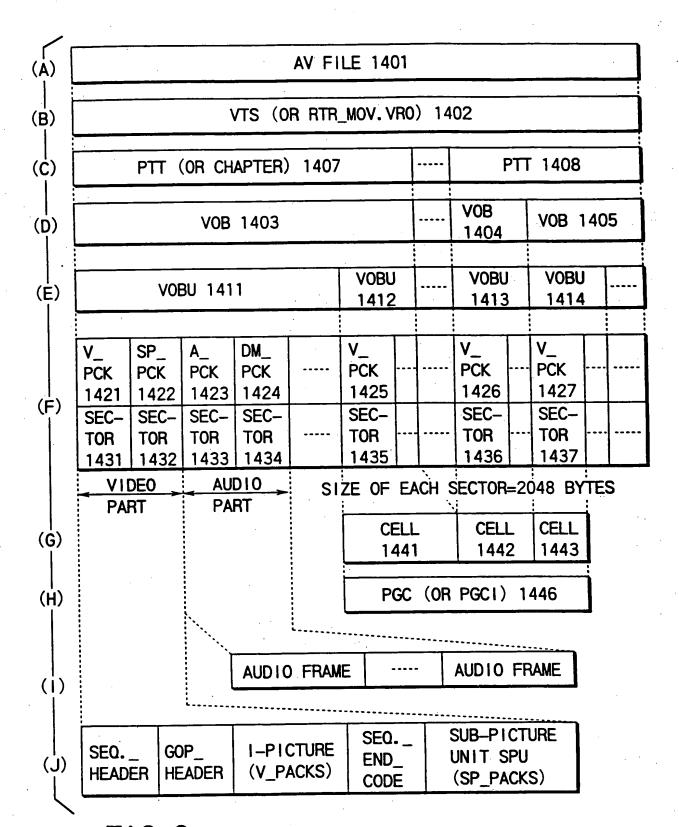


FIG.3

	က	-	LSNg
	0B # (3)	EXTENT # ε 1475	
	>	ш	LSNf+1
Ì	DED	—	LSNf
	ECORI AREA 1460	EXTENT # \$ 1470	
	UNR		LSNe+1
	Ż	<u></u>	LSNe
	VOB #2 1462	EXTENT #β 1472	
11	>	Ш	LSNd+1
AV FILE 1401	က	_	LSNd
FIL	08 # (2) 1464	EXTENT # S 1474	
¥	>	ш	LSNc+1
			LSNc
	# 15	EN Z	
	V0B #1	EXTENT #α 1471	LSNb+2
			LSNb+1
			LSNb
	V0B #3 (1)	Z ENT	
	V0B 1,	EXTENT # 7 1473	LSNa+2
			LSNa+1

←SMALLER LOGICAL SECTOR NUMBER (LSN) ←INNER SIDE OF OPTICAL DISC 1001

LARGER LOGICAL SECTOR NUMBER (LSN)→ OUTER SIDE OF OPTICAL DISC 1001→

FIG 4

CONTENTS OF	NUMBER OF EXTENTS IN UNRECORDED AREA 1601	1
ALLOCATION MAP TABLE 1105	1ST ADR. (LSN) OF 1ST EXTENT IN UNRECORDED AREA 1606	e-a
DISTRIBUTION INFORMATION OF	SIZE (SECTORS) OF 1ST EXTENT IN UNRECORDED AREA 1614	f-e
POSITIONS OF UNRECORDED AREA 1621	NUMBER OF EXTENTS IN VOB #1 1602	1
DISTRIBUTION	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #1 1607	b–a
INFORMATION OF POSITIONS OF	SIZE (SECTORS) OF 1ST EXTENT IN VOB #1 1615	c–b
RECORDED DATA AS TO VOB #1	NUMBER OF EXTENTS IN VOB #2 1603	1
DISTRIBUTION	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #2 1608	d-a
INFORMATION OF POSITIONS OF	SIZE (SECTORS) OF 1ST EXTENT IN VOB #2 1616	e–d
RECORDED DATA AS TO VOB #2	NUMBER OF EXTENTS IN VOB #3 1604	3
DISTRIBUTION	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #3 1609	1
INFORMATION OF POSITIONS OF	SIZE (SECTORS) OF 1ST EXTENT IN VOB #3 1617	b-a
RECORDED DATA AS TO VOB #3 1624	1ST ADR. (LSN) OF 2ND EXTENT IN VOB #3 1610	c-a
1021	SIZE (SECTORS) OF 2ND EXTENT IN VOB #3 1618	d-c
	1ST ADR. (LSN) OF 3RD EXTENT IN VOB #3 1611	f-a
	SIZE (SECTORS) OF 3RD EXTENT IN VOB #3 1619	g–f
FIG.5		

PGC CONTROL INFO. (OR UD_PGCIT) 1103 PGC INFORMATION MANAGEMENT INFO. (OR UD_PGCIT) 1052 PGC INFORMATION PGC GENERAL INFO. SEARCH POINTER #1 (OR PGC_GI) 1061 (UD_PGCI_SRP#1) 1053 PROGRAM INFO. (PGI#1) PGC INFORMATION SEARCH POINTER #n (UD_PGCI_SRP#n) 1054 PROGRAM INFO. PGC INFORMATION #1 (PGI#m) (OR UD PGCI#1) 1055 CELL ID #1 (OR CI_SRP#1) PGC INFORMATION #i (OR UD PGC1#i) 1056 CELL ID #m 1151 (OR CI_SRP#m) CELL INFO. (CI#1) PGC INFORMATION #n (OR UD_PGC1#n) 1057 #i=ANY ONE OF #1 TO #n CELL INFO. (CI#n)

- *1> PGC INFORMATION (OR UD_PGCI) CAN DEFINE A GROUP OF ONE OR MORE PROGRAMS;
- *2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
- *3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI_SRP);
- *4> EACH CELL ID (OR CI_SRP) CAN INDICATE POSITION (OR START ADDRESS) OF CELL INFORMATION (OR CI);
- *5> EACH CELL INFORMATION (OR CI) CAN DETERMINE START TIME AND END TIME OF PRESENTATION OF CELL

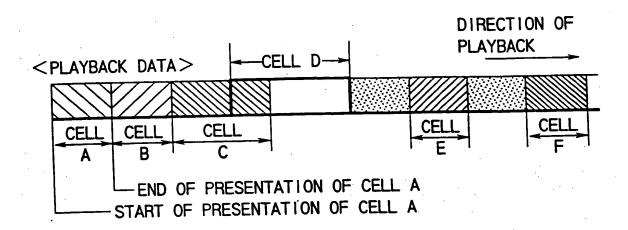


FIG. 7A

PGC INFORMATION (PGCI)

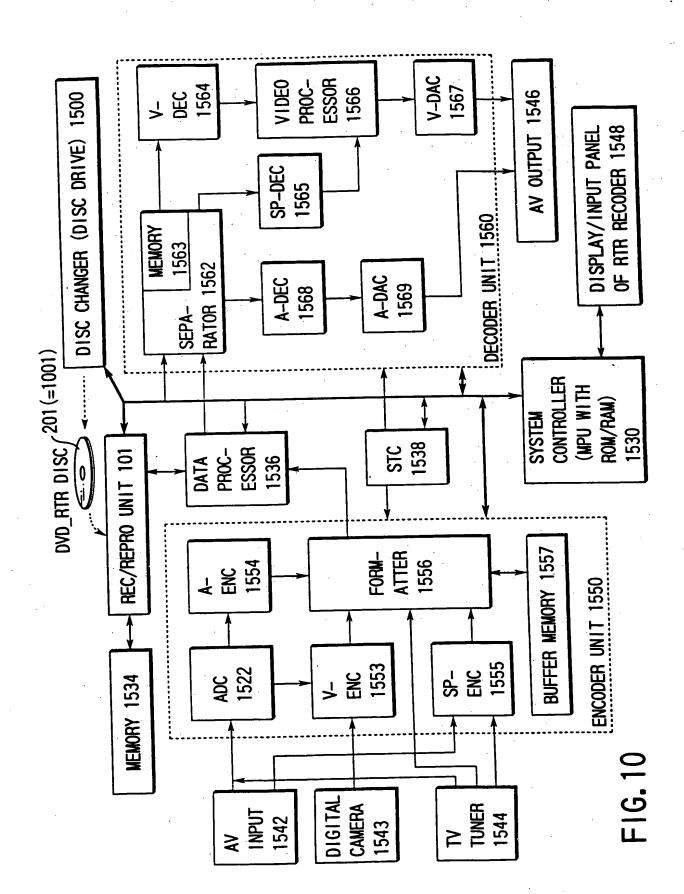
PGC#1	1081	PGC#2	1082	PGC#3	1083
NUMBE CELLS	1	NUMBE CELLS		NUMBE CELLS	
#1	CELL A	#1	CELL D	#1	CELL E
#2	CELL B	#2	CELL E	#2	CELL A
#3	CELL C	#3	CELL F	#3	CELL D
		<u> </u>		#4	CELL B
				#5	CELL E
CELL ID	CELL INFO.	CELL	CELL INFO.	CEL·L I D	CELL INFO.
CI_SRP #m=3	CI #n=3	CI_SRP #m=3	C1 #n=3	CI_SRP #m=5	CI #n=4

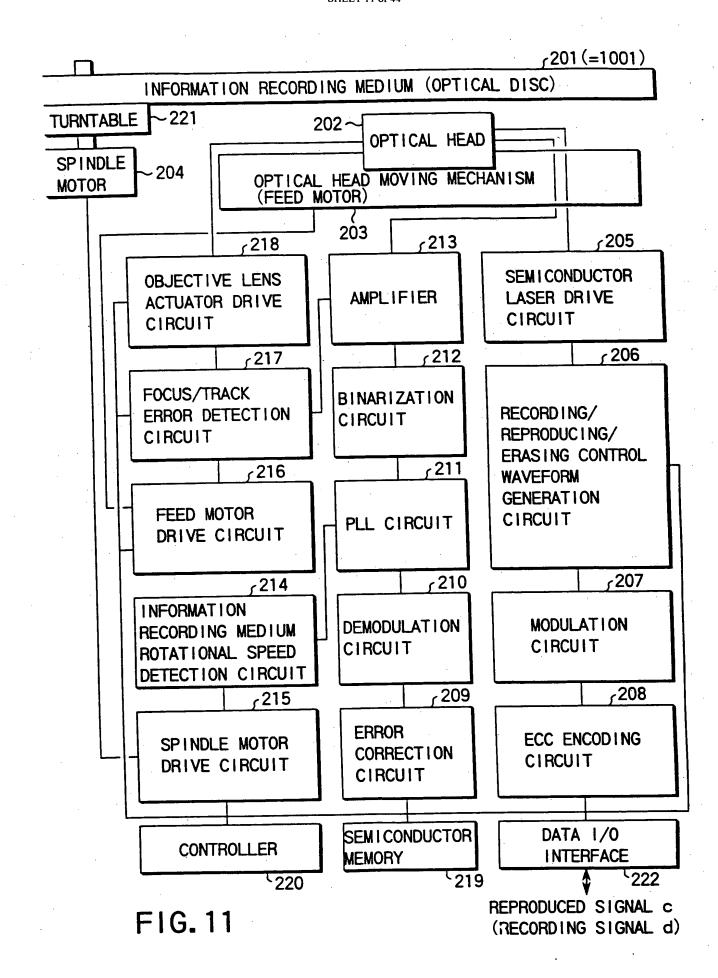
FIG.7B

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NUMBER OF VOB IN VTS OR PLAY LIST SEARCH POINTER TABLE INFO. (PL_SRPTI) 1756 1ST VOB_ID IN VOB SEQ. OR 1ST PLAY LIST SEARCH POINTER (PL_SRP#1) 1757 PLAY LIST 2ND VOB_ID IN VOB SEQ. SEARCH POINTER OR 2ND PLAY LIST SEARCH TABLE POINTER (PL_SRP#2) 1758 (PL SRPT) VIDEO nTH VOB_ID IN VOB SEQ. MANAGER INFO. OR nTH PLAY LIST SEARCH MANAGEMENT POINTER (PL SRP#n) TABLE (VMGI MAT) RTR VIDEO MANAGER VTSI 1106 INFO. (RTR_VMGI) <u>은</u> (RTR_VMGI) MOVIE AV FILE INFO. (RTR. VTS GENERAL TABLE (M_AVFIT) INFO. 1751 STILL PICTURE AV FILE RTR_VMG **VOB SEQUENCE** INFO. TABLE (S_AVFIT) INFO. 1752 ORIGINAL PGC INFO. PTT INFO. (ORG_PGCI) NAVIGATION DATA 1753 USER DEFINED PGC VTS TIME MAP INFO. TABLE (UD_PGCIT) **TABLE 1754** TEXT DATA MANAGER (TXTDT_MG) MANUFACTURER'S INFO. TABLE (MNFIT)

				·	-				
F16.9A				AV F	AV FILE 1401				
FIG 98			VI	VTS (OR RTR_MOV. VRO) 1402	MOV. VRC) 1402			
	V08#1) V	V0B#2 1462		V0 17	V0B#3 1763		UNRE	UNRECORDED AREA 1460
J0 511	EXTENT# α 1471		EXTENT# /8 1472	EXTENT# y		EXTENT# 8 1474	EXTENT# 6 1475		EXTENT# \$ 1470
U0 713				AV F	AV FILE 1401	-			
		VTS (0	R RTR MOV	. VRO/RTR	STO. VRO	/RTR_STA	VTS (OR RTR MOV. VRO/RTR_STO. VRO/RTR_STA. VRO) 1402	75	·
716. 3E		#10		-#190A S	-#15				
	00 A	#10/					04100.	1400×	ı#a∪∧
	V08#A	V0B#B	V0B#C 1773	V0B#D 1774	V0B#E 1775	V0B#F 1776	V08#G 1777	1778	1779
	VIDEO OR IECTS	0.0	AUD 10 OBJECTS	PICTURE 0BJECTS	品 STS	AUD10 0BJECTS	0 CTS	THUMBNA!!	VAIL FS
L .	1012	2	1014	1013		1014		1016	
716.3F				- PTB STO VRO-	-O VRO				





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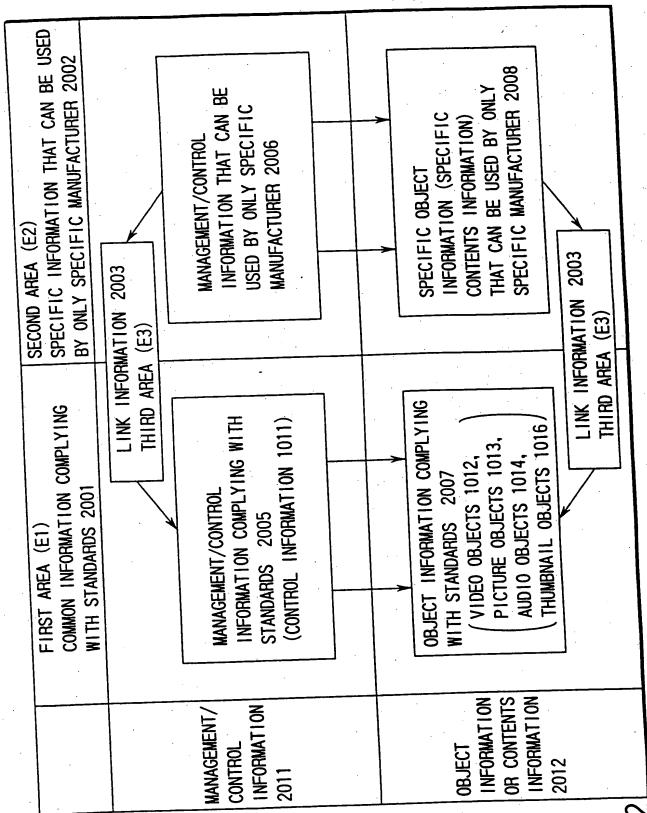


FIG. 12

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	SETALLED INSOBNATION CONTENTS 2021
CLASSIFICATION ITEM 2020	DEIAILED IN CHARACTURE 2030
I INV INFORMATION SIZE 2022	
	INFORMATION WHICH FOLLOW) (INDICATED BY NUMBER OF SECTION OF SECTI
	USED (INTEGER MULTIPLE OF 2,048 BYIES)
NOITANGORIA MOLTAGOLITAGO	ID INFORMATION OR LINK INFORMATION
DENITIFICATION IN COMPACTION 2023	
OF LINK INFORMATION COLO	IN INFORMATION OF CHARACTER CODE FOR DRIVE MANUFACTURER USE 2033
INFORMATION PERTAINING 10	DELVE MANIFEACTIBER GROUP ID INFORMATION
DRIVE MANUFACTURER 2024	(in the GROUP FORMED BY A PLURALITY OF MANUFACTURERS)
	INFORMATION ASSOCIATED WITH THIS LINK INFORMATION
	DRIVE MANUFACTURER ID INFORMATION (DRIVE MANUFACTURER NAME
	OR THE LIKE) OF DRIVE MANUFACTURER THAT CAN USE SPECIFIC
	TIME INFORMATION (SETTING DATE OF DRIVE MANUFACTURER ID OR
	THE LIKE) PERTAINING TO DRIVE MANUFACTURER THAT CAN USE
	ADDITIONAL INFORMATION PERTAINING TO THIS LINK
	را
	FINCTION INFORMATION (CATEGORY ID) WHICH PERIAINS IO STECTION 2040
FUNCTION INFORMATION 2025	
	INFORMATION PERTAINING TO LINK PATTERN OF SPECIFIC
	ACA CIT

F16.13/

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CIASSIEICATION ITEM 2020	DETAILED INFORMATION CONTENTS 2021	
CLASSII ICATION TIEM 2025	CORRECTION CONTENT AUTOMATIC INSPECTION INFORMATION FOR	
COS NO INMINISTRATION OF THE PROPERTY OF THE P	AUTOMATICALLY CHANGING/CORRECTING CONTENTS OF SPECIFIC	
	MANUFACTURER IN ACCORDANCE WITH CHANGE IN CONTENTS OF	. 0
		2042
		7700
LINK DESIGNATION	MANON INFORMATION COMPLYING WITH STANDARDS	7044
LOCATIONS OF LINK SOUNCE	FORMATION	- 1
AND LINK DESIGNATION.		2045
LINK DESIGNATION KANGE,	RST PRIORITY LINK DESIGNATION LOCATION INFORMATION	
AND PRICKLLY UNDER	COMMON INFORMATION COMPLYING WITH STANDARDS	2046
INFURMALION 2020	NOTION	
		2047
	RMATION	9
		2048
	IC INFORMATION	L
		4C02
		1
		CC07
	ATION	0000
		ocn7

FIG. 13E

CLASSIFICATION ITEM 2020	DETAILED INFORMATION CONTENTS 2021	
LINK DESIGNATION	SECOND PRIORITY LINK DESIGNATION LOCATION	2057
LOCATIONS OF LINK SOURCE	INFORMATION IN SPECIFIC INFORMALION	
AND LINK DESTINATION,	SECOND PRIORITY LINK DESIGNATION LOCATION	0100
LINK DESIGNATION MANGE,	INFORMATION IN SPECIFIC INFORMATION	0C07
INFORMATION 2026		
	LAST RECORDING/CHANGE TIME (DATE)	
TIME INFORMATION	INFORMATION OF THIS LINK INFORMATION	1907
PERTAINING TO THIS LINK	FEFECTIVE PERIOD INFORMATION OF THIS LINK	(
INFORMATION 2027		2062
	TIME INFORMATION PERTAINING TO SPECIFIC	-
	INFORMATION (TIME BAND INFORMATION IN WHICH	
	SPECIFIC INFORMATION CAN BE USED OR THE LIKE)	2063
	LISABLE ALINUSABLE DETERMINATION FLAG FOR SPECIFIC INFORMATION	2071
SPECIFIC INFORMATION	DASCIMORD INFORMATION FOR SETTING SECURITY	2072
USABLE CONDITION	MODEL INFORMATION THAT CAN USE SPECIFIC INFORMATION	
INTURMATION 2020	(O) DEST MODEL THAT CAN USE SPECIFIC INFORMATION)	2073
	INFORMATION PERTAINING TO USABLE CONDITION FOR SPECIFIC	
	INFORMATION (USER RANGE DESIGNATION THAT ALLOWS USE OF	•
	SPECIFIC INFORMATION OR THE LIKE)	20/4
	SPACE INFORMATION PERTAINING TO USE CONDITION OF	Ţ
	SPECIFIC INFORMATION (USABLE REGION OR THE LIKE)	2/07

FIG. 13(

EFFECT OF EMBODIMENTS 2085	• ID DUPLICATION AMONG DIFFERENT DRIVE MANUFACTURERS CAN BE AVOIDED • THE NUMBER OF DIGITS REQUIRED FOR ID • NO ID INFORMATION MANAGEMENT ORGANIZATION IN UNITS OF DRIVE MANUFACTURERS IS REQUIRED • ID INFORMATION CAN BE ARBITRARILY SET	
DETAILED CONTENTS OF EMBODIMENTS 2084	(DVD FORUM OR THE LIKE) ASSIGN ID INFORMATION TO EACH DRIVE MANUFACTURER BY THIRD PARTY COMMON ORGANIZATION OF SPECIFIC ORGANIZATION DETERMINE INFORMATION OF UNSUPPORTED MANUFACTURER WHEN SPECIFIC INFORMATION CANNOT BE READ	
VARIOUS EMBODIMENTS 2083	SYSTE ID IN MANUF SET C INFOF DRIVE	
ATTRIBUTE OF ID INFORMATION	2082 ORIGINAL ID INFORMATION (1/0 INFORMATION) 2095	
NUMBER OF ATTRIBUE PIECES OF 1D OF 1D INFORMATION INFORMATION	2081 INFORMATION 2091	

FIG. 14A

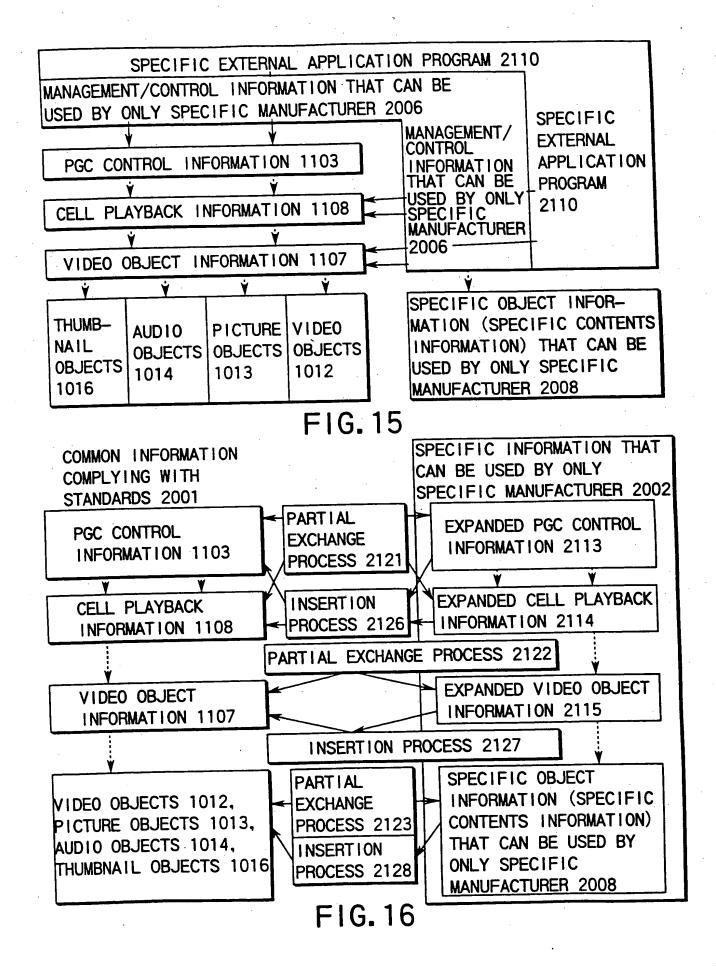
NUMBER OF	ATTRIBUTE	SHOTOW	DETAIL ED	FFFCT OF
10		FWBODIMENTS	CONTENTS OF	EMBODIMENTS
INFORMATION	INFORMATION	2083	EMBODIMENTS 2084	2085
2081	2082		70.00010	DDIVE MANIFACTURER ID
NDEPENDENT	CHARACTER	DIRECTLY DESCRIBE	DESCRIBE	
INFORMATION	INFORMATION DRIVE	DRIVE MANUFACTURER	MANUFACTURER NAME	INFORMATION CAN BE
2001	2006		USING CHARACTER	EASILY SET
1607		INFORMATION	CODE 2034 (JIS CODE	· ID DUPLICATION AMONG
			OR THE LIKE) SET IN	DIFFERENT DRIVE
				MANUFACTURERS HARDLY OCCURS
		DESIGNATE CORRE-	TURER	•NO CHARACTER CODE NEED BE
		SPONDING NUMBER FROM NAME IN LIST TABLE	NAME IN LIST TABLE	SET IN LINK INFORMATION
		DRIVE MANUFACTURER	SET AT DIFFERENT	·REGISTERED MANUFACTURER NAME
			POSITION IN UNITS OF	CAN BE DETECTED
		(DESCRIBED BY	DISCS, AND DESIGNATE	INFORMATION SIZE IN LINK
		CHARACTER	THE REGISTERED NUMBER	INFORMATION CAN BE MINIMIZED
		INFORMATION)	IN LINK INFORMATION	
		DESCRIBE IN	DETERMINE BASED ON	·LINK INFORMATION CAN BE
		CHARACTER	DRIVE MODEL NUMBER	FLEXIBLY SET UP IN UNIIS OF
		INFORMATION DRIVE	THAT ONLY	DRIVE MODELS
		MODEL NUMBER FOR	MANUFACTURER WHICH	· A PLURALITY OF PIECES OF ID
			SELLS THAT MODEL CAN	INFORMATION CAN BE ASSIGNED
		INFORMATION IS SET	USE SPECIFIC	
			INFORMATION	

FIG. 14B

EFFECT OF EMBODIMENTS 2085	• ID DUPLICATION AMONG DIFFERENT DRIVE AVOIDED -UNSUPPORTED MANUFACTURER RECOGNITION ERROR RATE CAN BE GREATLY REDUCED BY COMBINING TWO PIECES OF INFORMATION	
DETAILED CONTENTS OF EMBODIMENTS 2084	DETERMINE MANUFACTURER THAT CAN USE SPECIFIC INFORMATION IN BCD FORMAT AND DRIVE MANUFACTURER THAT DETERMINE MANUFACTURER THAT CAN USE SPECIFIC INFORMATION AND DRIVE MANUFACTURER ID DETERMINE MANUFACTURER THAT CAN USE SPECIFIC CAN USE SPECIFIC INFORMATION FROM PASSWORD AND DRIVE MANUFACTURER ID AND DRIVE MANUFACTURER ID	
VARIOUS EMBODIMENTS 2083	(BCD 036 WHEN JFACTURER AT I ON 1S HER ON 2037 I VE RER ON 2072 ON 2072 I NG TOGETHER	
ATTRIBUTE OF 1D INFORMATION	2082 INFORMATION COMBINED WITH TIME INFORMATION COMBINED WITH ADDITIONAL INFORMATION 2098 INFORMATION COMBINED WITH ADDITIONAL INFORMATION 2098 INFORMATION COMBINED WITH PASSWORD 2099	
NUMBER OF ATTRIE	COMBINE INFORMATIC INDEPENDENT COMBINED INFORMATION WITH TIME INFORMATION 2097 IN RIGHT COLUMN 2092 INFORMATIC OLUMN 2092 INFORMATIC OLUMN 2092 INFORMATIC OLUMN 2092 COMBINED WITH ADDITIONA INFORMATIC COMBINED WITH PASSWORD 2099	

F16.140

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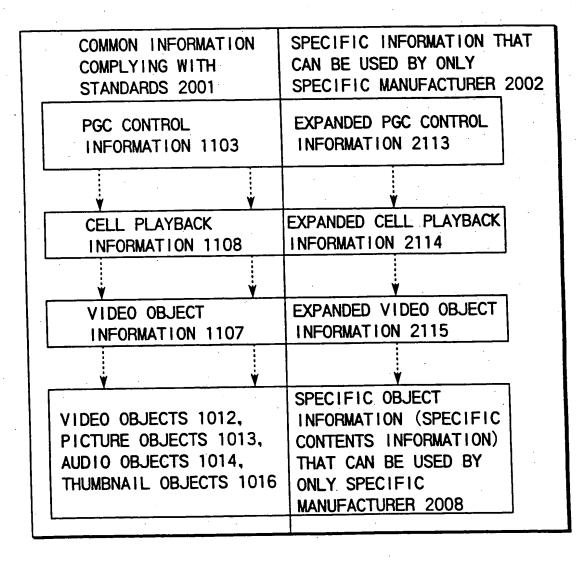


FIG. 17

						-	
THIRD PARTY	INFORMATION THAT CAN BE COMMONLY USED 2134	COMPANIES B AND C	COMPANIES B AND C	COMPANY D	COMPANY B	COMPANY C	COMPANY A ONLY
SEL FLANT OF IECT MANAGEMENT /CONTROL	INFORMATION COMPLYING WITH STANDARDS OF LINKED OBJECTS 2133	PGC_info. 1103 PGC_info. 1107	ALL PIECES OF MANAGEMENT/ CONTROL INFORMATION	ALL PIECES OF MANAGEMENT/CONTROL INFORMATION	V0B_info. 1107 0BJECT 2007	Cell_info. 1108	Cell_info. 1108
TOTI OF TANK	HELEVANI OBSECTION INFORMATION CONTENT RANGE	ALL	ALL	ALL	PTT 1408	ALL	ALL
	OUTLINE OF FUNCTION CONTENTS 2131	SYSTEMATICALLY MANAGE INFORMATION RECORDED IN RECORDING MULTILAYERS	VIDEO RECORDING USING PROGRAM RESERVATION INFORMATION	SEARCH PROCESS USING OURRY INFORMATION	PLAY BACK/DISPLAY VIDEO/STILL PICTURE INFORMATION RECORDED	VARIABLE SPEED PI AYBACK PROCESS	SIMULTANEOUSLY PLAY BACK/DISPLAY AFTER- RECORDED INFORMATION
	LINK PATTERN 2041	A	⋖	A	89	æ	6
	CATEGORY PATTE 1D 2040 2041	-	5	က	4	2	ဖ

FIG. 18A

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EGORY 2040	CATEGORY PATTERN 2041	OUTLINE OF FUNCTION CONTENTS 2131	RELEVANT OBJECT INFORMATION CONTENT RANGE 2132	RELEVANT OBJECT MANAGEMENT/CONTROL THIRD PARTY INFORMATION COMPLYING INFORMATION THAT CONTENT RANGE WITH STANDARDS OF CAN BE COMMONLY LINKED OBJECTS 2133 USED 2134	THIRD PARTY INFORMATION THAT CAN BE COMMONLY USED 2134
	89	DISPLAY/OUTPUT SPECIAL EDIT VIDEO	PTT 1408	Cell_info. 1108	COMPANY B
	ပ	CM/COMMENT AUTOMATIC	PTT 1407	Cell_info. 1108	COMPANIES C AND D
6	O	ADD SECURITY FUNCTION	PTT 1407	V0B_info. 1107	COMPANY A ONLY
0	Q	SIMULTANEOUS DISPLAY OF SMALL WINDOW	PTT 1407	Cell_info. 1108	COMPANY A ONLY
	0	SET IMAGE QUALITY IMPROVING PARAMETER	ALL	V0B_info. 1107	COMPANY D
2	Q	SET USER RECORDING/ PLAYBACK LOCATION	ALL	Cell_info. 1108	COMPANIES B AND C

FIG. 18B

⋰€	LAST CF OF COR	LAST CREATION/CHANGE DATE/TIME INFORMATION OF CORRESPONDING LOCATION 2151	ON 1103 ME INFORMATI 51	NO	
(8)	CELL PLAYBACK INFORMATION #A 2162 LAST CREATION/CHANGE DATE/ TIME INFORMATION 2153	CELL PLAYBACK INFORMATION #B 2163 LAST CREATION/CHANGE DATE/ TIME INFORMATION 2154	3 DATE/	CELL PLAYBACK INFORMATION #C 2164 LAST CREATION/CHANGE DATE, TIME INFORMATION 2155	2164 ANGE DATE/
(3)	VIDEO OBJECT INFORMATION #1 2167 LAST CREATION/CHANGE DATE/ TIME INFORMATION 2157	VIDEO OBJECT INFORMATION #2 2168 LAST CREATION/CHANGE DATE/ TIME INFORMATION 2158	38 DATE/	VIDEO OBJECT INFORMATION #3 2169 LAST CREATION/CHANGE DATE/ TIME INFORMATION 2159	3 2169 ANGE DATE/ 2159
<u>(a)</u>	(D) $ LINK INFORMATION LINK INFORM LINK LINK LINK $	INFORMATION LINK INFORMATION 164 # y 2165		LINK INFORMATION LINK INFORMATION #8 2166 # 2167	INFORMATION 167
(E)	(E) INFORMATION FICATION MANUF, SIZE 2022 2023 2024	ACTURER INFORMATION MATION 2025	LINK DESTINATION/ SOURCE INFORMATION 2027 2026	TIME INFORMATION 2027	USEABLE CONDITION 2028
(F)	LAST RECORDING TIME (DATE) INFORMATION OF LINK INFORMATION 2061	10N 2061			

			EDIT CON	EDIT CONTROL INFORMATION 1023	
_J. } 					
(8)	EDIT HIS	EDIT HISTORY INFORMATIC	ION 2141	LINK INFORMATION 2003	
(2)	DATE/TIME INFORMATION OF LATEST EDIT	<u>"</u>	DATE/TIME INFORMATION OF SECOND LATEST	DATE/TIME INFORMATION OF THIRD LATEST EDIT PROCESS 2146	INFORMATION PERTAINING TO DETAILED EDIT HISTORY CONTENTS 2149
_/ `	FIG 10				
-	2.5				DO (OTIONI) OTOLICE
DESIGNAT	8	SETTING METHOD OF	DES	DESCRIPTION OF PRACTICAL METHOD	RESPECTIVE EMBODIMENTS
ARBITRARY	>	DIRECTLY INSERT	•DIRECTLY	DIRECTLY INSERT "POINTER	ARBITRARY LOCATION AND HANGE IN COMMON INFORMATION 2001
LOCATION		E3	INFORMATION IN	INFORMATION IN COMMON	CAN BE DESIGNATED
CAN BE		INFORMATION" IN	DESCRIBE	DESCRIBE TAG INFORMATION AND	SINCE POINTER INFORMATION
DESIGNATED			POINTER S	POINTER SIZE INFORMATION AT	SIZE IS SMALL, ENTINE COMMUNICATION 2001 IS FREE
	· · · · · · · · · · · · · · · · · · ·	-	HEAD POSI	HEAD POSITION OF POINIER INFORMATION TO AVOID CONFUSION	FROM ANY LARGE INCREASE IN
		. •	WITH OTHE	WITH OTHER COMMON INFORMATION	INFORMATION SIZE DUE 10
			-DESIGNATE	DESIGNATE ID (OR NUMBER) OF	INSERTION
			CORRESPON	CORRESPONDING LINK INFORMATION	
	_		IN POINTE	IN POINTER INFORMATION	

FIG. 214

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												_
EFFECTS (MERITS) OF RESPECTIVE EMBODIMENTS	. ARBITRARY LOCATION AND RANGE	IN COMMON INFORMATION 2001		CAN BE DESIGNATED	SINCE LINK INFURMATION CAN	BE DIRECTLY PLAYED BACK IN	COMMON INFORMATION 2001,	QUICK ACCESS TO 2002 IS	ACHIEVED			
DESCRIPTION OF	OLDECTI V INCERT "I INK	CONTROLLE INSCRIPTION	INFORMALION IN COMMON	INFORMATION 2001	DESCRIBE TAG INFORMATION AND	POINTER SIZE INFORMATION AT	HEAD POSITION OF POINTER	INFORMATION TO AVOID CONFUSION	WITH OTHER COMMON INFORMATION	DISTRIBUTE INDIVIDUAL LINK	INFORMATION IN COMMON	INFORMATION 2001
DESIGNATION SETTING METHOD OF	DESIGNATION LOCATION	DIRECILI INSENI	"LINK INFORMATION"	IN COMMON	INFORMATION	[8]	2					
DESIGNATION	LOCALION	AHBI IHAHY	LOCATION	CAN BE	DESIGNATED							

FIG. 21B

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100,210,010	שליים און דייוס	DESCRIPTION OF	FFFFCTS (MFRITS) OF
DESIGNATION	DESTIGNATION SELLING METHOD OF		
LOCATION	DESIGNATION LOCATION	PRACTICAL METHOD	RESPECTIVE EMBODIMENIS
DESIGNATION	DESIGNATION ASSURE DESCRIPTION	· ASSURE DESCRIPTION COLUMN	SINCE TAG INFORMATION AND
LOCATION	COLUMN FOR	INDICATING ID (OR NUMBER) OF	SUBSEQUENT INFORMATION
AND BANGE	DESIGNATING	INK INFORMATION AT	INSERTED IN COMMON
ARE I INITED	I INK INFORMATION	INFORMATION DESCRIPTION	INFORMATION 2001 NEED NOT BE
IN ADVANCE	IN COMMON	LOCATIONS PERTAINING TO	SKIPPED, READ ERROR IN
	INFORMATION	CORRESPONDING VOBS, CELLS,	COMMON INFORMATION 2001
VOB Info		PGCs IN VIDEO OBJECT	HARDLY OCCURS IN INFORMATION
7011 1240	Ξ	INFORMATION 1107. PGC CONTROL	PLAYBACK APPARATUS WHICH
PGC Info		INFORMATION 1103, AND CELL	DOES NOT USE LINK INFORMATION
AND THE		PLAYBACK INFORMATION 1108	
I KF		-COLUMN HAS NO ENTRY IF LINK	
		INFORMATION IS NOT DESIGNATED	

FIG. 210

																	-			7
EFFECTS (MERITS) OF RESPECTIVE EMBODIMENTS	SINCE TAG INFORMATION AND	SUBSEQUENT INFORMATION	INSERTED IN COMMON	INFORMATION 2001 NEED NOT BE	SKIPPED, READ ERROR IN COMMON	INFORMATION 2001 HARDLY	OCCURS IN INFORMATION	PLAYBACK APPARATUS WHICH DOES	NOT USE LINK INFORMATION	INFORMATION SIZE IN COMMON	INFORMATION 2001 CAN BE	MINIMIZED	· INFLUENCE ON INFORMATION	PLAYBACK APPARATUS	THAT DOES NOT USE LINK	INFORMATION IS MINIMUM				
DESCRIPTION OF PRACTICAL METHOD	· CORRESPONDING DESIGNATION	LOCATION AND DESIGNATION RANGE	INFORMATION IN COMMON	INFORMATION 2001 COMPLYING	WITH STANDARDS ARE DESCRIBED	IN LINK INFORMATION 2003, AS	SHOWN IN FIG. 13	IN FIG. 13, BY DESIGNATING	PRIORITY ORDER, A PLURALITY OF	PARALLEL LINKS CAN BE	DESIGNATED FROM ONE LINK	INFORMATION TO A PLURALITY OF	LOCATIONS IN COMMON	INFORMATION 2001	THERE IS NO INFLUENCE ON	CONTENTS OF COMMON INFORMATION	2001 IRRESPECTIVE OF	PRESENCE/ABSENCE OF LINK	INFORMATION 2003 AND SPECIFIC	INFORMATION 2003
DESIGNATION SETTING METHOD OF	_ 1		DESIGNATION				INFORMATION	TO - 1NK	INFORMATION			-								
DESIGNATION	DECIGNATION	I OCATION	AND RANGE	ARE LINITED	IN ADVANCE		VOR Info	Cellinfo	PGC Info	AND THE	1 1KF									

FIG. 21D

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LINK INFORMATION	DESCRIPTION OF	RELATIONSHIP WITH METHOD OF SETTING DESIGNATION LOCATION IN COMMON INFORMATION (CORRESPONDING TO SYMBOLS IN FIG. 21)	EFFECTS (MERITS) OF
ALLOCATION	DETAILED CONTENTS		RESPECTIVE EMBODIMENTS
IN COMMON INFORMATION 2001	ALLOCATE IN PORTION (E.G., IN EDIT CONTROL INFORMATION 1023 LIKE IN EMBODIMENT SHOWN IN FIG.19) OF COMMON INFORMATION 2001	A, B, C, D	WHEN USER ERRONEOUSLY ERASE COMMON INFORMATION 2001, SINCE LINK INFORMATION IS ERASED TOGETHER, INFORMATION PLAYBACK APPARATUS HARDLY CAUSES OPERATION ERROR

FIG. 22A

LINK INFORMATION ALLOCATION	DESCRIPTION OF DETAILED CONTENTS	RELATIONSHIP WITH METHOD OF SETTING DESIGNATION LOCATION IN COMMON INFORMATION (CORRESPONDING TO SYMBOLS IN FIG. 21)	EFFECTS (MERITS) OF RESPECTIVE EMBODIMENTS
IN SPECIFIC INFORMATION 2002	ALLOCATE IN PORTION OF SPECIFIC INFORMATION 2002 TOGETHER	A, C, D	WHEN USER ERRONEOUSLY ERASES SPECIFIC INFORMATION, SINCE LINK INFORMATION IS ERASED TOGETHER, INFORMATION PLAYBACK APPARATUS HARDLY CAUSES OPERATION ERROR

FIG. 22B

FIG. 22C

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ROOT DIRECTORY 1450

SUB DIRECTORY 1451

REWRITABLE TITLE SET RW_VTS 1452 (DVD_RTR DIRECTORY)

RTR=REAL TIME RECORDING

DATA FILES 1453

CONTROL INFORMATION 1011 = RW_VIDEO_CONTROL.IFO (RTR.IFO)

BACKUP OF CONTROL INFO. =RW_VIDEO_CONTROL.BUP

AV FILE 1401 (RTR DATA) = RW_OBJECT.OB

VIDEO OBJECT (RTR_MOV. VRO) 1012

PICTURE OBJECT (RTR_STO.VRO) 1013

AUDIO OBJECT (RTR_STA. VRO) 1014

THUMBNAIL OBJECT 1016

LINK INFORMATION FILE 2171 =RW_LINK.DAT (ONE KIND OF REWRITABLE ADDITIONAL INFO. 1454)

DIRECTORY FOR SPECIFIC INFORMATION OF COMPANY A 2173 = RWADD-A

SPECIFIC MANAGEMENT/CONTROL INFORMATION DEDICATED TO COMPANY A 2176 = RW-A-CONTROL. IFO

SPECIFIC OBJECT INFORMATION DEDICATED TO COMPANY A 2177 =RW-A-OBJECT. VOB

DIRECTORY FOR SPECIFIC
INFORMATION OF COMPANY B 2174
=RWADD-B

FIG. 23

ROOT DIRECTORY 1450 SUB DIRECTORY 1451 REWRITABLE TITLE SET RW_VTS 1452 (DVD_RTR DIRECTORY) RTR=REAL TIME RECORDING DATA FILES 1453 CONTROL INFORMATION 1011 =RW_VIDEO_CONTROL.IFO (RTR.IFO) BACKUP OF CONTROL INFO. =RW_VIDEO_CONTROL.BUP AV FILE 1401 (RTR DATA) =RW_OBJECT.OB VIDEO OBJECT (RTR_MOV.VRO) 1012 PICTURE OBJECT (RTR_STO. VRO) 1013 AUDIO OBJECT (RTR_STA.VRO) 1014 THUMBNAIL OBJECT 1016 COMMON FILE FOR RECORDING SPECIFIC INFORMATION 2181

FIG. 24

=RW_ADD.DAT (ONE KIND OF

REWRITABLE ADDITIONAL INFO. 1454)

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ROOT DIRECTORY 1450 SUB DIRECTORY 1451 REWRITABLE TITLE SET RW_VTS 1452 (DVD_RTR DIRECTORY) RTR=REAL TIME RECORDING DATA FILES 1453 CONTROL INFORMATION 1011 =RW_VIDEO_CONTROL.IFO (RTR.IFO) BACKUP OF CONTROL INFO. =RW VIDEO CONTROL.BUP AV FILE 1401 (RTR DATA) =RW_OBJECT.OB VIDEO OBJECT (RTR_MOV. VRO) 1012 PICTURE OBJECT (RTR_STO.VRO) 1013 AUDIO OBJECT (RTR_STA.VRO) 1014 THUMBNAIL OBJECT 1016 SUB-DIRECTORY DEDICATED TO COMPANY A 2185 LINK INFORMATION DEDICATED TO COMPANY A 2191 MANAGEMENT/CONTROL INFORMATION OF SPECIFIC INFORMATION DEDICATED TO COMPANY A 2192 SPECIFIC OBJECT INFORMATION DEDICATED TO COMPANY A 2193 SUB-DIRECTORY DEDICATED TO COMPANY B 21.86

FIG. 25

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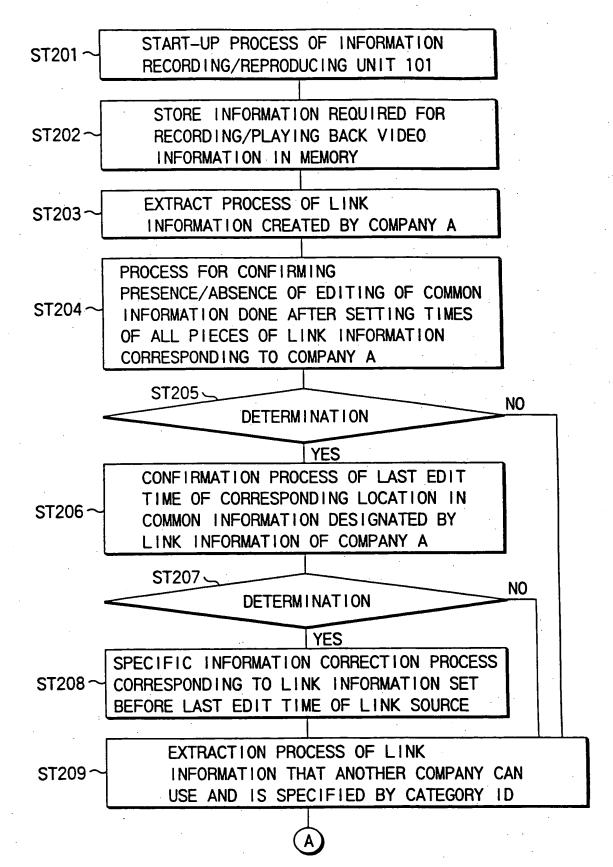


FIG. 26A

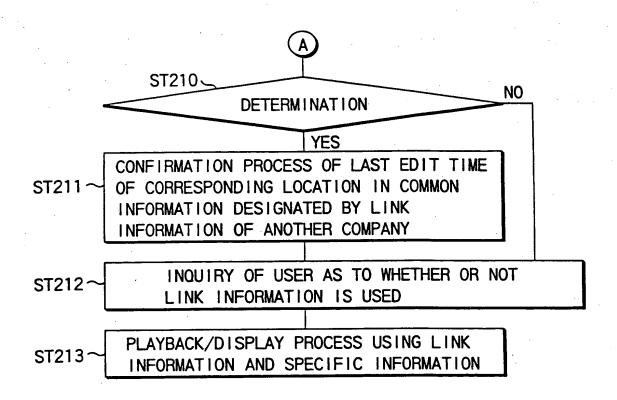


FIG. 26B

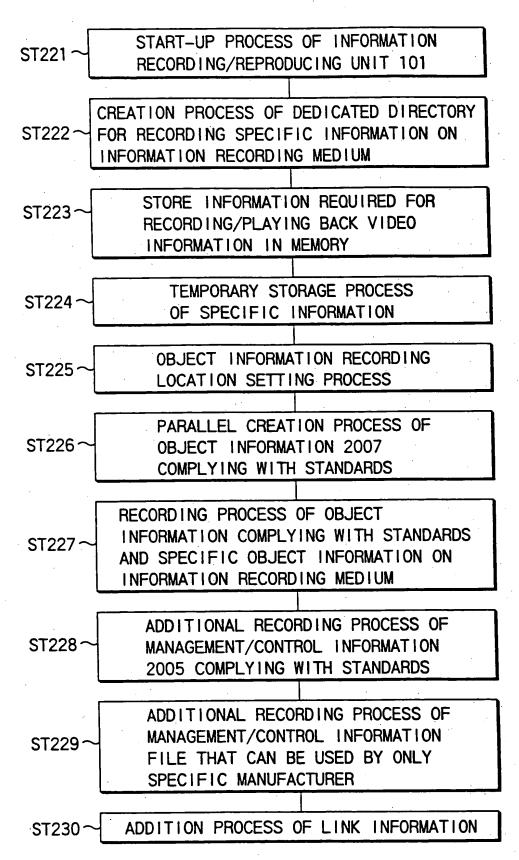


FIG. 27

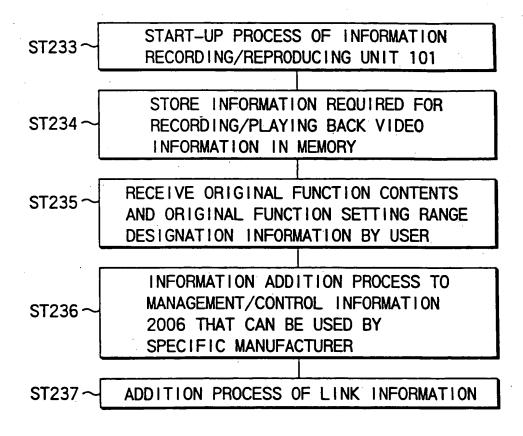


FIG. 28

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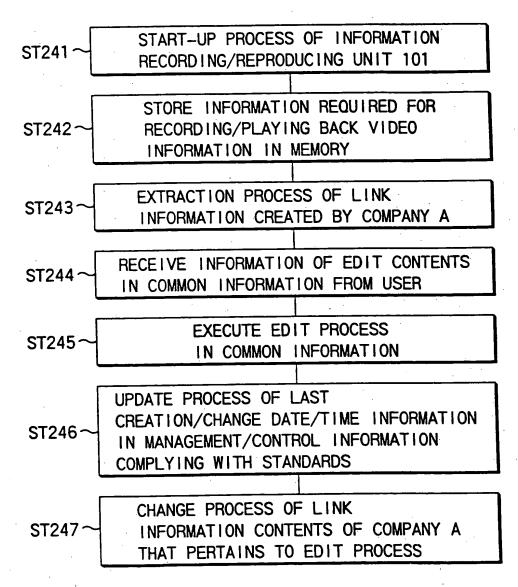


FIG. 29

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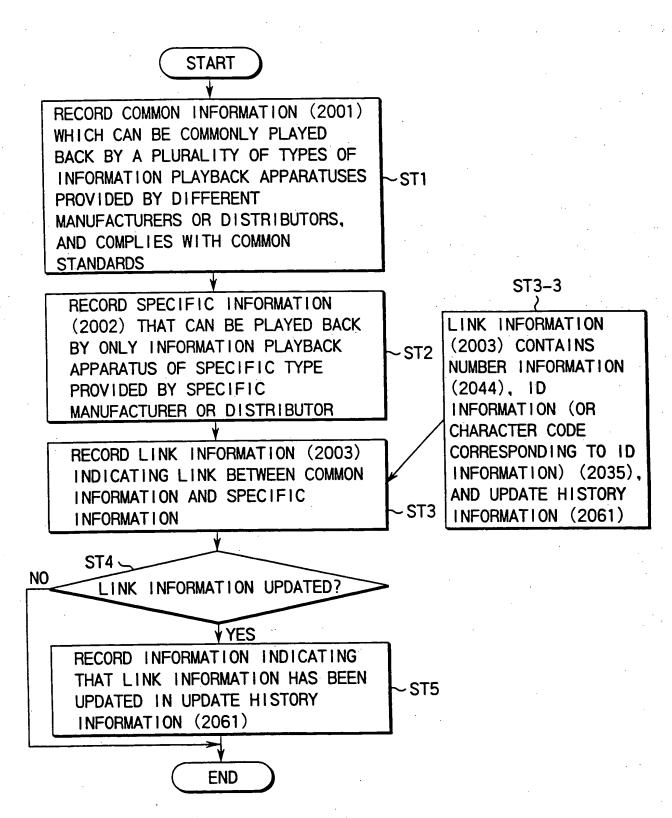


FIG. 30

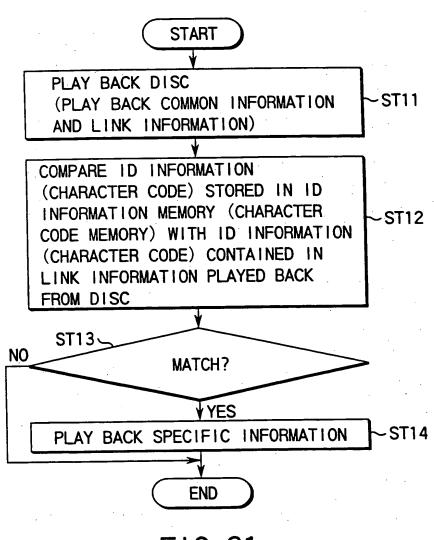
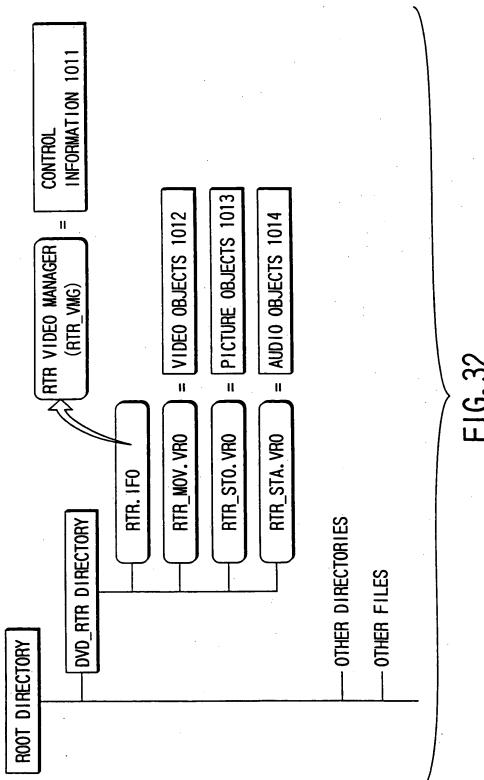


FIG. 31



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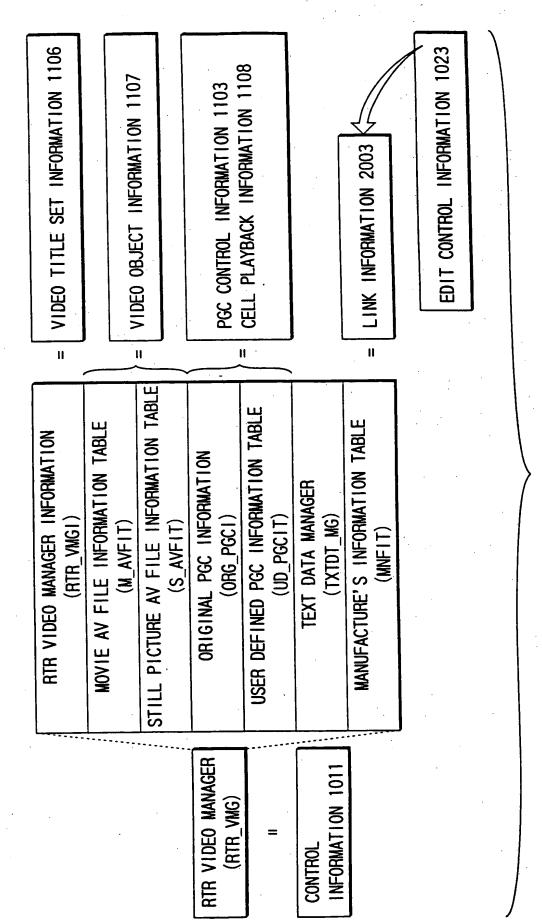


FIG. 33

			NUMBER OF	DESTGNATI	COMPLY ING STANDARDS		
				- 11			
				NUMBER OF MANUFACTURER'S	MANUFACTURER'S INFORMATION #1 (MNF! #1)		MANUFACTURER'S INFORMATION #n (MNF! #n)
(RTR_VMG)	RTR VIDEO MANAGER INFORMATION (RTR VMGI)	MOVIE AV FILE INFORMATION TABLE (M_AVFIT)	STILL PICTURE AV FILE INFORMATION TABLE (S AVFIT)	ORIGINAL PGC INFORMATION	USER DEFINED PGC INFORMATION TABLE (UD PGCIT)	TEXT DATA MANAGER (TXTDT_MG)	MANUFACTURE'S INFORMATION TABLE (MNFIT)

FIG. 34

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986 0	FIELD NAME	CONTENTS	NUMBER OF BYTES	
	MNF_ID	MANUFACTURER ID	32 BYTES =	DRIVE MANUFACTURER ID INFORMATION 2035
32 TO 36 REC_TM	REC_TM	TIME WHEN THIS MNFI	5 BYTES =	LAST REC
37 TO - MNF1_DT	MNFI_DT	MANUFACTURER'S INFORMATION DATA	VARIABLE LENGTH BYTES	
TOTAL			37+VARIABLE LENGTH BYTES	

FIG. 3